

WHAT IS CLAIMED IS:

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1. A method for removing a coating on a surface comprising ejecting an abrasive admixed with a treatment material comprising at least one compound selected from the group consisting of calcium, sodium or potassium silicate, portland cement type I to IV, and sodium and potassium calcium phosphate and iron or aluminum sulfate.

2. A method for removing a coating as set forth in Claim 1 wherein said treatment material is portland cement and potassium phosphate or Calcium Phosphate.

3. A treatment material [for use in a method for removing a coating having a hazardous metal or compound contained therein] said treatment material selected from the group consisting of:

Sodium Silicate
Sodium Metasilicate
Sodium Orthosilicate
Potassium Silicate
Aluminum Sulfate
Alum
Ferrous Sulfate
Ferric Sulfate
Tricalcium Silicate
Dicalcium Silicate
Tricalcium Aluminate
Calcium Carbonate
Phosphoric Acid

Diammonium Phosphate
Dicalcium Phosphate
Dipotassium Phosphate
Tricalcium Phosphate
Trisodium Phosphate
Sodium Metabisulfite
Metallic Iron
Silicate of Soda
Soda Ash (Sodium Carbonate)
Caustic Potash (Potassium)
Hydroxide
Calcium Phosphate
Polythio Carbonate

4. A treatment material [for use in a method for removing a coating having a hazardous metal or compound contained therein] said treatment material comprising:

a. i. an alkali metal silicate or alkaline earth metal silicate or portland cement,

ii. an alkali metal or alkaline earth metal phosphate, or

iii. an oxide or hydroxide of a magnesium, aluminum, iron, potassium or sodium in a ratio of 10:0 to 0:0:1; and

b. a solvent selected from water, aliphatic hydrocarbons, aromatic hydrocarbons, alcohols, esters, glycol ethers, ketones, chlorinated solvents and glycols.

5. A treatment material as set forth in Claim 4 wherein said ratio of part a are between 10:1:02 to 7:1:05.

6. A treatment material as set forth in Claim 4 including a resin and surfactant compatible with the solvent.

7. A treatment material for admixture with a paint stripper comprising an alkali metal or alkaline earth metal silicate or portland cement and an alkali metal or alkaline earth metal silicate, oxide, hydroxide or portland cement and an alkali metal phosphate, oxide or hydroxide.

8. A treatment material for use with an encapsulant or overcoating comprising an alkali metal or alkaline earth metal silicate oxide or hydroxide or portland cement and an alkali metal or alkaline earth metal phosphate.

9. A treatment material for use with an abrasive in removing coatings having a hazardous metal or compound contained therein, said treatment material comprising:

a. an alkali metal or alkaline earth metal silicate oxide or hydroxide or
• portland cement types I to V; and

b. an alkali metal or alkaline earth metal phosphate.

10. A method for removing from a surface a coating having a hazardous metal comprising applying a treatment compound as set forth in Claim 3 to said coating and removing said coating and treatment compound.

11. The method as set forth in Claim 10 wherein said treatment compound includes a solvent and is applied as a layer on said coating.

12. The method as set forth in Claim 10 wherein said treatment compound is applied by ejection on to said surface.

13. A treatment material comprising magnesium oxide and calcium phosphate mixed in an alkyd, epoxy, acrylic, elastomeric or urethane paint system.